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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,554	05/08/2006	Yoshiaki Yamanoi	P08546US00/RFH	5107

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EXAMINER

LOFTIS, JOHNNA RONEE

ART UNIT	PAPER NUMBER
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3624

MAIL DATE	DELIVERY MODE
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03/24/2010

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/521,554	Applicant(s) YAMANOI, YOSHIKI	
	Examiner JOHNNA R. LOFTIS	Art Unit 3624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 May 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 May 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The following is a first office action upon examination of application number 10521554.

Claims 1-3 are pending and have been examined on the merits discussed below.

Claim Objections

2. Claim 1 objected to because of the following informalities:

In line 4, the claim states “*replied* on a human working speed”. This should read “*relied* on a human working speed”.

In line 15, the claim states, “said *firs* kind”. It should state, “said *first* kind”. Appropriate correction is required.

Further, the claim language is unclear in several instances. Examiner requests Applicants to revise claim language to clarify what is intended. For instance, in lines 6-8 of claim 1, it states, “a series of working including said first kind of motion elements and said second kind of motion elements is made a working step”. This is unclear. “a series of working...is made a working step”?

In addition, step (s1c) of claim 1 is also unclear. “multiplied *relative to*”? and “the first kind of *thus* accelerated motion”?

In claim 1, step (s1d), “elements are *coupled* with second kind”?

Please make appropriate corrections to all claims regarding these types of grammatical/typographical/translation errors.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-3 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

5. The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors. See claim objections for examples.

Claim Rejections - 35 USC § 101

6. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

7. Claims 1-3 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Based on Supreme Court precedent and recent Federal Circuit decisions, the Office's guidance to examiners is that a § 101 process must (1) be tied to another statutory class (such as a particular apparatus) or (2) transform underlying subject matter (such as an article or materials) to a different state or thing. *Diamond v. Diehr*, 450 U.S. 175, 184 (1981); *Parker v. Flook*, 437 U.S. 584, 588 n.9 (1978); *Gottschalk v. Benson*, 409 U.S. 63, 70 (1972); *Cochrane v. Deener*, 94 U.S. 780, 787-88 (1876); *In re Bilski*, 88 USPQ2d 1385 IFed. Cir. 2008).

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Also see USPTO Memoranda, "Guidance for Examining Process Claims in view of *In re Bilski*," January 7, 2009 and "New Interim Patent Subject Matter Eligibility Examination Instructions," August 24, 2009. Both memoranda may be located on the USPTO website at:

<http://www.uspto.gov/web/patents/memoranda.htm>

There are two corollaries to the machine-or-transformation test. First, a mere field of use limitation is generally insufficient to render an otherwise ineligible method claim patentable. This means the machine or transformation must impose meaningful limits on the method claim's scope to pass the test. Second, insignificant extra solution activity will not transform an unpatentable principle into a patentable process. This means reciting a specific machine or particular transformation of a specific article in an insignificant step, such as data gathering or outputting, is not sufficient to pass the test. If neither of these requirements are met by the claims, the method is not a patent eligible process under 35 USC 101 and is non-statutory subject matter.

Nominal recitations of structure in an otherwise ineligible method fail to make the method a statutory process. The use of a specific machine or transformation of an article must impose meaningful limits on the claim's scope to impart patent-eligibility. See *Benson*, 409 U.S. at 71-72. Further, the involvement of the machine or transformation in the claimed process must not merely be insignificant extra-solution activity. See *Flook*, 437 U.S. at 590. Incidental physical limitations, such as data gathering, field of use limitations, and extra-solution activity is not enough to convert an abstract idea into a statutory process (*In re Bilski*, 88 USPQ2d 1385, 1385 (*Fed Cir.* 2008)). In other words, nominal or token recitations of structure in a method claim do not convert an otherwise ineligible claim into an eligible one. It is further noted that the

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mere recitation of a machine in the preamble in a manner such that the machine fails to patentably limit the scope of the claim does not make the claim statutory under 35 USC 101, as seen in the Board of Patent Appeals Informative Opinion *Ex Parte Langemyr et al. (Appeal 2008-1495)*.

Regarding the “transformation” prong, the claimed values represent conceptual and theoretical values. This is different than the discussion of Abele held by Bilski, in which “X-ray attenuation data produced in a two dimensional field by a computed tomography scanner” was deemed to represent physical and tangible objects, because it “clearly represented physical and tangible objects, namely the structure of bones, organs, and other body tissues..... the transformation of that raw data into a particular visual depiction of a physical object on a display”, resulting in a transformation of data that rendered the process patent-eligible. Thus, the claimed invention does not rise to the level of Abele in transforming electronically-manipulated data into patent-eligible subject matter.

Here, applicant’s method steps, fail the first prong since reciting a specific machine or particular transformation of a specific article in an insignificant step, such as data gathering or outputting, is not sufficient to pass the test. Similarly, the applicant’s method steps fail the second prong because they do not result in a transformation of subject matter into another state or thing. Thus, claims 1-3 are non-statutory.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Prinz, US 4505559 – method and means for compensating for image motion in an aerial camera

Kitagawa et al, US 5678067 – motion compensation device having stabilizing motion detection unit that does not inhibit imaging operations in an imaging unit

Takeuchi et al, US 5978600 – motion compensation device to compensate for motion of an optical system without using motion sensors

Hirano, US 6445882 - camera which compensates for motion by setting the time at which a movable member begins moving and which adjusts the movement of the movable member

Cornog et al, US 6570624 - Interpolation of a sequence of images using motion analysis

Doerr et al, US 4461553 – dynamic head motion measuring system

Motoc, US 5768122 – virtual motion programming and control

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHNNA R. LOFTIS whose telephone number is (571)272-6736. The examiner can normally be reached on M-F 8am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Beth Boswell can be reached on 571-272-6737. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Johnna R Loftis/
Examiner, Art Unit 3624